

Date: Tuesday, 11/29/2005 3:05:45 PM  
 User: Linda Lacelle

## Process Sheet

<b>Customer</b>	: CU-DAR001 Dart Helicopters Services		<b>Drawing Name</b>	: SADDLE FITTING, AFT (OUTBOARD/INBOARD)			
<b>Job Number</b>	: 25018						
<b>Estimate Number</b>	: 10533						
<b>P.O. Number</b>	: N/A			<b>Part Number</b>	: D2573		
<b>This Issue</b>	: 11/29/2005	S.O. No. : <u>N/A</u>			<b>Drawing Number</b>	: D2573 REV D	
<b>Prsh Rev.</b>	: NC			<b>Project Number</b>	: N/A		
<b>First Issue</b>	: N/A			<b>Drawing Revision</b>	: D		
<b>Previous Run</b>	: 24839			<b>Material</b>	: N/A		
<b>Written By</b>	<u>SEE COMMENT BELOW</u>			<b>Due Date</b>	: 1/5/2006		
<b>Checked &amp; Approved By</b>	<u>SEE ABOVE DATE &amp; SIGN</u>			<b>Qty:</b>	8	<b>Um:</b> Each	
<b>Comment</b>	: Est: H 02.10.02 Re-format; Change to Dwg Rev. D & incorporated D2574KJ						

### Additional Product

Job Number:



<b>Seq. #:</b>	<b>Machine Or Operation:</b>	<b>Description :</b>
1.0	D6101007	7075-T7351 8.25X7.75X2.5 
		<b>Comment:</b> Qty.: 1.0000 Each(s)/Unit Total : 8.0000 Each(s) 7075-T7351 8.25X7.75X2.5 Make from D6101-007 billet for D2573 Ensure that grain is along 7.75" length Batch No: <u>B24893</u>
2.0	HAAS1	HAAS CNC VERTICAL MACHINING #1 
		<b>Comment:</b> HAAS CNC VERTICAL MACHINING #1 Program Batch No. <u>25018</u> Double check by: <u>SD</u> <u>J.G</u> <u>06/01/16</u> M8 <u>06/01/16</u> 1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets 2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets 3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets 4-Deburr and remove all machining marks 5-Tumble to remove sharp edges. N/A
3.0	MILLING CONV.	CONVENTIONAL MILLING MACHINE 
		<b>Comment:</b> CONVENTIONAL MILLING MACHINE Machine keyway as per dwg D2573 & D2574 <u>M8 06/01/16</u> <u>J.G</u> <u>06/01/16</u>

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes  No  DQA:  Date: 06/01/19  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
06/01/19	2	Dimension <u>(W)</u> the thickness of the 2" bore is below tolerance. Part not shimmed properly.	IP 06.01.24 per QSI 642	changed shims Thickness of 0.112" OK. See email	J.G 06/01/19 06.02.20	J 06.02.20	IP 06.01.24 per QSI 642	IP 06.02.21
06/01/19	2	Dimension <u>(W)</u> the thickness of the 2" bore is below tolerance, and <del>the</del> part moved in <u>Y</u> axis opp making dimension <u>(D)</u> under tolerance. Part not shimmed properly	IP 06.01.24 per QSI 642	changed shims Thickness of 0.112" OK Hole spacing OK. See email	06/01/19 06.02.21	J 06.02.21	IP 06.01.24 per QSI 642	IP 06.02.21

NOTE: Date & initial all entries

Date: Tuesday, 11/29/2005 3:05:45 PM  
User: Linda Lacelle

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SADDLE FITTING, AFT (OUTBOARD/INBOARD)

Job Number: 25018

Part Number: D2573

Job Number:



Seq. #:	Machine Or Operation:	Description :
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4.0

QC2

INSPECT PARTS AS THEY COME OFF MACHINE

- M8 06/01/18  
- S.G



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

8

5.0

QC8

SECOND CHECK



Comment: SECOND CHECK

PG

06.01.24

8

6.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Acid etch and Alodine as per QSI 005 4.1

FF 06-02-09

8

7.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

DC 06/02/19

8

8.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT

C 206102120

8

9.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: ST 479

C 206102120 8

8

10.0 DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

SUE 06/02/21

8

C 206102121

8

Job Completion



W/O:

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

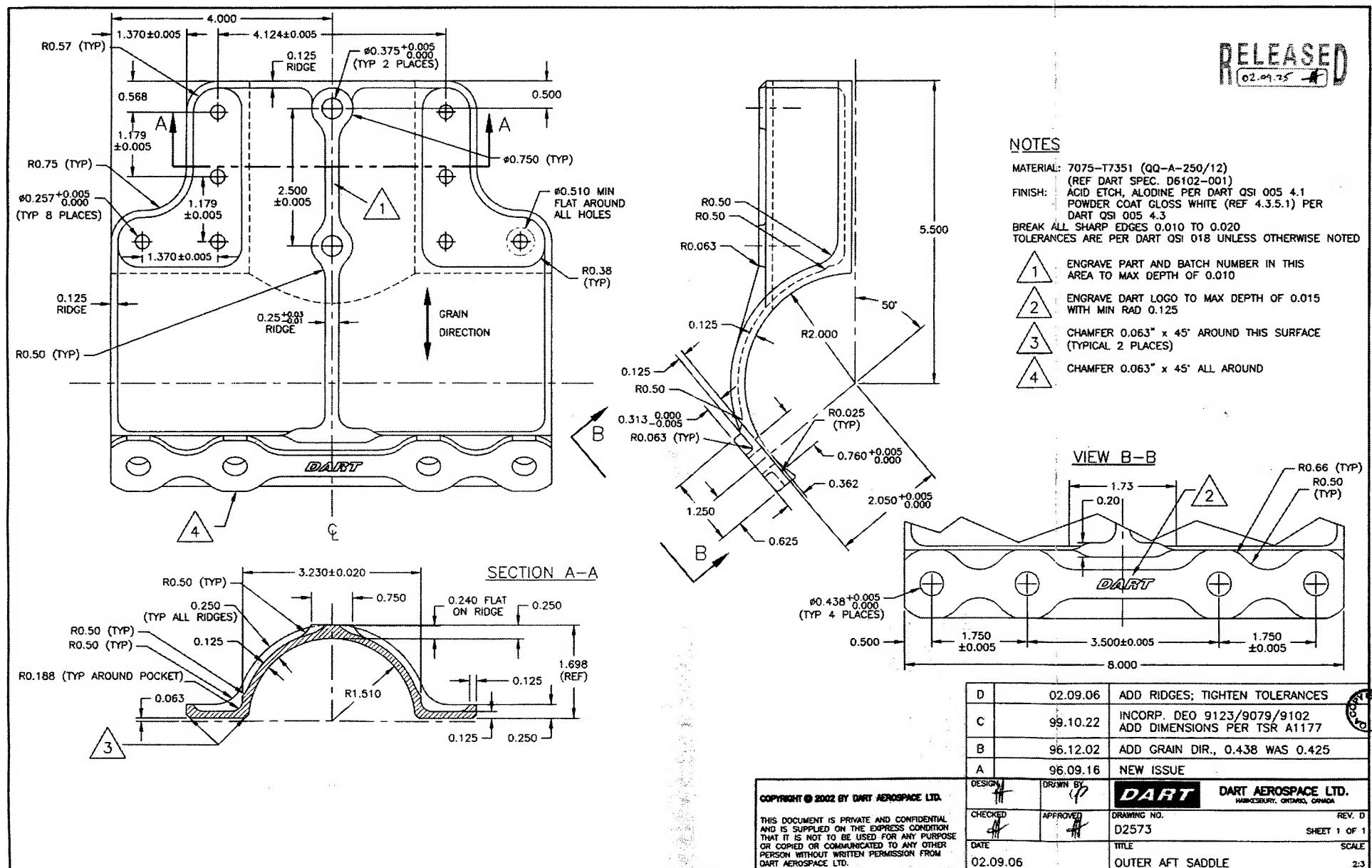
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date &amp; initial all entries

RELEASED  
02-09-75



DART AEROSPACE LTD				Work Order:	25018
Description: Saddle, Aft Outboard				Part Number:	D2573
Inspection Dwg: D2573 Rev. E				Page 1 of 1	

Inspect dimensions highlighted on inspection sheet drawing D2573 Rev. E and record below:

Dim	Min	Max	Go/No Go Gauge	Recorded Actual Dimensions				By	Date
				1	2	3	4		
A	0.438	0.443	DT8682	✓	✓	✓	✓		
B	1.745	1.755		1.750	1.750	1.750	1.748		
C	3.495	3.505		3.500	3.500	3.500	3.501		
D	1.745	1.755		1.750	1.750	1.750	1.746		
E	7.990	8.010		8.003	8.002	8.004	8.004		
F	0.490	0.510		.497	.503	.502	0.506		
G	0.257	0.262	DT8683	✓	✓	✓	✓		
H	0.375	0.380	DT8684	✓	✓	✓	✓		
I	0.490	0.510		.503	.504	.501	0.500		
J	1.174	1.184		1.180	1.180	1.180	1.179		
K	0.558	0.578		.572	.570	.573	0.568		
L	1.174	1.184		1.180	1.180	1.180	1.180		
M	1.365	1.375		1.371	1.371	1.370	1.369		
N	2.495	2.505		2.500	2.500	2.500	2.499		
O	4.119	4.129		4.123	4.125	4.121	4.121		
P	0.115	0.135		.125	.125	.125	0.126		
Q	0.115	0.135		.135	.135	.135	0.135		
R	0.240	0.260		.245	.244	.248	0.244		
S	0.115	0.135		.123	.124	.125	0.124		
T	0.178	0.198		.188	.188	.188	.188		
U	3.210	3.250		3.231	3.231	3.230	3.231		
V	0.230	0.250		.235	.235	.237	0.235		
W	0.115	0.135		.125	.124	.125	0.125		
X	0.308	0.313		.308	.311	.311	0.311		
Y	0.760	0.765		.762	.762	.762	0.761		
Z	0.352	0.372		.368	.368	.370	0.364		
AA	0.470	0.530		.500	.500	.500	.500		
AB	0.615	0.635		.631	.629	.627	0.6		
AC	0.053	0.073		.063	.063	.063	.063		
AD	0.240	0.260		.247	.246	.250	0.248		
AE	1.500	1.520		1.512	1.511	1.513	1.515		
AF	0.115	0.135		.135	.130	.128	0.129		
AG	0.240	0.280		.270	.270	.270	0.270		
AH	0.240	0.260		.246	.246	.246	0.245		
AI	2.000	2.020		2.002	2.002	2.005	2.007		
AJ	0.023	0.043		.03	.03	.03	.03		

Accept/Reject

Measured by: MB 06/01/18 /  
Date:

Audited by:  
Date:

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.26	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	

RELEASED  
05/12/05

Description: Saddle, Aft Outboard

Part Number:

D2573

Inspection Dwg: D2573 Rev. E

Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2573 Rev. E and record below:

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	By	Date
A	0.438	0.443	DT8682	✓	✓	✓	✓		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.503	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.002	8.003	8.002		
F	0.490	0.510		.500	.498	.503	.503		
G	0.257	0.262	DT8683	✓	✓	✓	✓		
H	0.375	0.380	DT8684	✓	✓	✓	✓		
I	0.490	0.510		.501	.503	.503	.502		
J	1.174	1.184		1.180	1.180	1.180	1.180		
K	0.558	0.578		.569	.569	.568	.568		
L	1.174	1.184		1.180	1.180	1.180	1.180		
M	1.365	1.375		1.370	1.370	1.371	1.371		
N	2.495	2.505		2.501	2.500	2.500	2.500		
O	4.119	4.129		4.122	4.124	4.123	4.123		
P	0.115	0.135		.125	.124	.125	.125		
Q	0.115	0.135		.135	.135	.135	.135		
R	0.240	0.260		.247	.245	.248	.248		
S	0.115	0.135		.125	.121	.122	.122		
T	0.178	0.198		.188	.188	.188	.188		
U	3.210	3.250		3.231	3.231	3.231	3.232		
V	0.230	0.250		.240	.239	.239	.240		
W	0.115	0.135		.122	.124	.124	.125		
X	0.308	0.313		.309	.310	.310	.310		
Y	0.760	0.765		.762	.762	.762	.762		
Z	0.352	0.372		.370	.371	.359	.363		
AA	0.470	0.530		.500	.500	.500	.500		
AB	0.615	0.635		.630	.632	.628	.625		
AC	0.053	0.073		.063	.063	.063	.063		
AD	0.240	0.260		.247	.247	.248	.248		
AE	1.500	1.520		1.511	1.511	1.510	1.511		
AF	0.115	0.135		.135	.135	.135	.135		
AG	0.240	0.280		.260	.260	.260	.260		
AH	0.240	0.260		.250	.249	.248	.248		
AI	2.000	2.020		2.004	2.004	2.003	2.003		
AJ	0.023	0.043		.03	.03	.03	.03		
Accept/Reject									

Measured by: M8  
 Date: 06/01/21

Audited by: J.G  
 Date: 06/01/21

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.26	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	

RELEASED  
 06/01/21

## Chris Provencal

---

**From:** David Shepherd [davids@dartaero.com]  
**Sent:** January 24, 2006 3:17 PM  
**To:** Chris Provencal  
**Subject:** Re: D2573 NCR

Chris,

I also checked the fit of the parts on two skidtubes in production, and didn't have a problem with fit.  
Therefore, these parts are acceptable deviations.

David

----- Original Message -----

From: "Chris Provencal" <cprovencal@dartaero.com>  
To: <davids@dartaero.com>  
Sent: Tuesday, January 24, 2006 12:44 PM  
Subject: D2573 NCR

> D2573 Saddle:  
>  
> One saddle, the thickness on the 2" bore is 0.112" (0.003" under min tol)  
>  
> One saddle, the thickness on the 2" bore is 0.112" and the spacing of  
> between two of the saddle-to-skidtube holes is 1.743" (0.002" under min  
> tol). I checked the part on one of our 412 skidtubes in the shed, and  
with  
> D2570 bushing it fit OK.  
>  
> Are these parts acceptable.  
>  
>  
> Sincerely,  
> Chris Provencal  
> DART Aerospace Ltd.  
> Email...cprovencal@dartaero.com  
> Phone...613-632-3336  
> Fax.....613-632-4443  
>  
>